Supplementary Table 6 - Annotated gene names from the top nr BLASTx hits of unmapped reads using Blast2GO, and also from BLASTx for genes without blast2GO annotations

Blast2GO

1-phosphatidylinositol--bisphosphate phosphodiesterase gamma-1-like

39s ribosomal protein mitochondrial

a-kinase anchor protein 6 a-kinase anchor protein 9

acetylcholine receptor subunit delta-like actin-binding rho-activating protein adenylate cyclase type 8-like

adenylate cyclase type o-like

alpha-2,8-sialyltransferase 8e isoform 1

androgen-induced gene 1

apoptotic protease-activating factor 1-like

arf-gap with ank repeat and ph domain-containing protein 1 arf-gap with ank repeat and ph domain-containing protein 3

aristaless related homeobox

aspartyl asparaginyl beta-hydroxylase

atp-dependent rna helicase a

atrial natriuretic peptide-converting enzyme-like bah and coiled-coil domain-containing protein 1

bartter with sensorineural deafness

beta-1,4-mannosyl-glycoprotein 4-beta-n-acetylglucosaminyltransferase

beta-adrenergic receptor kinase 2 beta-citryl-glutamate synthase b

beta-lactamase

bmp-2-inducible protein kinase

bmp-binding endothelial regulator protein breast cancer anti-estrogen resistance 1

c-maf-inducing protein

calcium-activated potassium channel subunit beta-4 calcium-transporting atpase type 2c member 1

capsid protein f
carboxypeptidase m
cell adhesion molecule 4
centrosomal protein of 120 kda
cgmp-dependent protein kinase 2

checkpoint protein hus1

BLASTx

1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-1

28S ribosomal protein S9, mitochondrial

50 kDa midgut protein

5-hydroxytryptamine receptor 2C ABC transporter G family member 20

acid phosphatase protein 2 adapter protein CIKS adenylate cyclase type 8 adenylate kinase 8

a-kinase anchor protein 6 alpha-2-macroglobulin protein 1 amino-terminal enhancer of split

anthrax toxin receptor 2 AP-3 complex subunit beta-1

arf-GAP domain and FG repeats-containing protein 1

arf-GAP with GTPase, ANK repeat and PH domain-containing protein 1

arf GTPase-activating protein GIT1

atrial natriuretic peptide-converting enzyme

attractin

BAH and coiled-coil domain-containing protein 1

BCL-6 corepressor

beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase

beta-adrenergic receptor kinase 2 beta-citryl-glutamate synthase B

breast cancer anti-estrogen resistance protein 1 BRICHOS domain-containing protein C16orf79

cadherin-24

calmodulin-binding transcription activator 2 CAP-Gly domain-containing linker protein 2

caskin-2 Cdc4p

cell adhesion molecule 3 centrosomal protein of 120 kDa

chordin

cholecystokinin

chordin

chromosome 10 open reading frame 65 cip1-interacting zinc finger protein comm domain-containing protein 1 core histone macro-H2A.1 isoform 1

cyclic amp-dependent transcription factor atf-5

cytokine receptor-like factor 3

cytoplasmic polyadenylation element-binding protein 1

dedicator of cytokinesis protein 3

deoxycytidine kinase diacylglycerol kinase delta diacylglycerol kinase eta dna damage-binding protein 1 e3 ubiquitin-protein ligase znrf1

endothelin-converting enzyme-like 1-like

enterohemolysin 2

exocyst complex component 7 extracellular matrix protein fras1 fibroblast growth factor receptor 3

formin-binding protein 1

g protein-coupled receptor kinase 1-like g protein-coupled receptor kinase type 2

g2 mitotic-specific cyclin-b3 gag-pol precursor polyprotein glutathione s-transferase theta-1 growth differentiation factor 5 hepatic leukemia factor-like

histone-lysine n-methyltransferase prdm6

homeobox protein hox-b6 homeobox protein nkx-

immunoglobulin superfamily member 4b

inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 1

insulin-degrading enzyme

intraflagellar transport protein 122 homolog kinase d-interacting substrate of 220 kda

krueppel-like factor 8-like

chorion-specific transcription factor GCMb chromodomain-helicase-DNA-binding protein 3

C-myc promoter-binding protein coiled-coil domain containing 57

coiled-coil domain-containing protein 120

Collectrin precursor

COMM domain containing 10

complement C5 coronin-7 CR1-3

craniofacial development protein 1

Cysteine and histidine-rich domain-containing protein 1

cytohesin-4 dachshund 2 dachshund protein

DC-STAMP domain-containing protein 1 DC-STAMP domain-containing protein 2 dedicator of cytokinesis protein 11 dedicator of cytokinesis protein 3

disabled 1

disco-interacting protein 2 C DNA damage-binding protein 1

DNA ligase 1 dysferlin

E3 ubiquitin-protein ligase pellino 1 EH domain-binding protein 1

EMILIN-3

endonuclease-reverse transcriptase

ephrin-A2

ER degradation-enhancing alpha-mannosidase 3

Ewing tumor-associated antigen 1 excitatory amino acid transporter 2 extracellular matrix protein FRAS1

FAM131A FAM184B FAM65C

far upstream element-binding protein 3

laminin subunit alpha-1

low quality protein: protein prrc2c-like melanoma-associated antigen g1 metal transporter cnnm4-like

metalloendopeptidase mitochondrial-like mitochondrial ribosomal protein l1

mitochondrial ribosomal protein s9

mitogen-activated protein kinase kinase kinase 7 interacting protein 1

myosin x

n-acetylaspartyl-glutamate synthetase a neural retina-specific leucine zipper protein

neuritin precursor neurofibromin isoform 1

neuronal pas domain-containing protein 3

neutral ceramidase

neutrophil cytosolic factor 4 novel protein vertebrate nebulin

novel protein vertebrate protein disulfide isomerase family member 5

nuclear factor 1 b-type-like

nucleoside diphosphate-linked moiety x motif 18

oma1 zinc metallopeptidase (cerevisiae) otu domain-containing protein 5-like

p protein

par-3 partitioning defective 3 homolog (elegans) peptidyl-prolyl cis-trans isomerase cwc27 homolog phosphatidylinositol 3-kinase catalytic subunit type 3 phosphoribosyl pyrophosphate amidotransferase

phosphoribosylaminoimidazole succinocarboxamide synthetase

phosphoribosylformylglycinamidine synthase platelet endothelial aggregation receptor 1

plexin d1 pol polyprotein

pou class transcription factor 3-b isoform 2

probable 4-hydroxy-2-oxoglutarate mitochondrial-like

probable atp-dependent rna helicase ddx20

protein casc3-like protein efr3 homolog a

FCH domain only protein 2

fibronectin type III domain-containing protein 3B fibronectin type III domain-containing protein 4

follistatin-related protein 4

Forkhead box G1

forkhead box protein N3

glutamate receptor-interacting protein 1
G protein-coupled receptor kinase 5

growth inhibition and differentiation-related protein 88

guanine nucleotide exchange factor VAV3

heme-binding protein 1

hepatocyte nuclear factor 3-beta Histone acetyltransferase MYST3

Histone-lysine N-methyltransferase PRDM6

Homeobox protein Meis2

homocysteine-responsive ER-resident ubiquitin domain member 1

Immunoglobulin G-binding protein A

IMPACT

inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 1 isoform 2

insulin-degrading enzyme

insulin growth factor binding protein 3

interleukin-17A/F-2

interleukin-1 receptor type II intraflagellar transport protein 122 intraflagellar transport protein 27

IQ motif and SEC7 domain-containing protein 3

Jade-2 jagged-2

kelch protein 29

KH domain-containing, RNA-binding, signal transduction-associated protein 1

kinase D-interacting substrate of 220 kDa

kinesin protein KIF1C Krueppel factor 5

kyphoscoliosis peptidase laminin subunit alpha-1

latrophilin-2

LOC494675 protein

protein pthb1-like protein sec13 homolog protein spinster homolog 2-like protein sprouty homolog 1-like rap guanine nucleotide exchange factor 2 rap guanine nucleotide exchange factor 6 isoform 2 ras gtpase-activating protein ngap ras protein activator like 2 ras suppressor protein 1 ras-associated and pleckstrin homology domains-containing protein 1 ras-related protein rab-21 ras-specific guanine nucleotide-releasing factor 2-like regulating synaptic membrane exocytosis protein 2 isoform b replication-associated protein partial retinoic acid receptor alpha isoform 1 retrotransposable element tf2 155 kda protein type 1-like retrotransposon-like family member (retr-1)-like rho guanine nucleotide exchange factor 1 ribonuclease 3 ring finger protein 114 sam and sh3 domain-containing protein 1 sec1 family domain-containing protein 1 sec1 family domain-containing protein 2 seizure related 6 homolog -like serine threonine-protein kinase mrck alpha sncaip protein sodium hydrogen exchanger 5-like sortilin-related receptor staphylococcal nuclease domain containing 1 succinate dehydrogenase suppression of tumorigenicity 7 synphilin-1 isoform 1 t cell-specific transcription factor isoform c testican-3 isoform 1 tgf-beta-activated kinase 1 and map3k7-binding protein 1-like thyrotropin-releasing hormone-degrading ectoenzyme toll-interacting protein

LON peptidase N-terminal domain and RING finger protein 2 MAP7 domain-containing protein 2 MAP kinase-activating death domain protein melanophilin metalloendopeptidase OMA1, mitochondrial mitochondrial carnitine/acylcarnitine carrier protein mitochondrial sodium/hydrogen exchanger NHA2 mitotic checkpoint serine/threonine-protein kinase BUB1 multiple C2 and transmembrane domain-containing protein 1 myelin protein zero protein 1 mvosin-X mvosin-XVIIIb NACHT, LRR and PYD domains-containing protein 12 neogenin nephrocystin-1 neural cell adhesion molecule L1 neuronal PAS domain-containing protein 3 neutrophil cytosolic factor 4 novel protein similar to vertebrate enabled (ENAH) novel protein similar to vetebrate diacylglycerol kinase, delta 130kDa (DGKD) nuclear factor 1 A-type nuclear factor 1 X-type nuclear factor 7 ovary nuclear receptor corepressor 2 osteopotentia otogelin OTU domain-containing protein 4 p40phox protein palladin parathyroid hormone-responsive B1 isoform 3 partitioning defective 3 perilipin-2 phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing subunit beta phosphatidylinositol-binding clathrin assembly protein phosphatidylserine synthase 2 phosphofurin acidic cluster sorting protein 1 plexin-B1

transcription factor 7-like 2

transcription factor gata-3

transcription factor sox-13

transcription factor sox-5

transmembrane protein 145

transmembrane protein 8c-like

transposable element tcb1 transposase

transposase

tryptophanyl-trna mitochondrial-like

ubiquitin carboxyl-terminal hydrolase 24

vesicle-associated membrane protein 4

vitellogenin

voltage-dependent p g-type calcium channel subunit alpha-1a

voltage-dependent t-type calcium channel subunit alpha-1i-like

wd repeat domain isoform cra b

wd repeat-containing and planar cell polarity effector protein fritz homolog

wd repeat-containing protein 3

wdhd1 protein

zinc finger and btb domain-containing protein 46

zinc finger e-box-binding homeobox 2-like isoform 2

zinc finger protein 536

zinc ring finger protein 3

zinc transporter slc39a7

plexin-D1

pol polyprotein

polypeptide N-acetylgalactosaminyltransferase 10

polypeptide N-acetylgalactosaminyltransferase 3

polyphosphate kinase 2 family

potassium voltage-gated channel subfamily A member 4

potassium voltage-gated channel subfamily D member 1

POU domain class 2-associating factor 1

P protein

probable E3 ubiquitin-protein ligase HERC1

probable G-protein coupled receptor 153

probable RNA-binding protein 46

progesterone-induced-blocking factor 1

protocadherin-15

proto-oncogene Wnt-3

PTHB1

pumilio 2

purine-rich element-binding protein gamma

ralBP1-associated Eps domain-containing protein 2

rap guanine nucleotide exchange factor 6

ras GTPase-activating protein nGAP

ras guanine nucleotide exchange factor F

recombining binding protein suppressor of hairless protein

retrotransposable element Tf2 155 kDa protein type 1

RETRotransposon family member (retr-1)

retrovirus-related Pol polyprotein LINE-1

reverse transcriptase

rho GTPase-activating protein 17

rho GTPase-activating protein 6

ribonuclease 3

RING finger protein 214

RNA binding protein fox-1 2

RRNAD1

S-antigen protein

sec1 family domain-containing protein 1

sec1 family domain-containing protein 2

senescence-associated protein

sentrin-specific protease 7

serine/threonine-protein kinase BRSK2

serine/threonine-protein kinase ULK4

serine/threonine-protein kinase WNK1

SH2B adapter protein 1

SH2 domain-containing protein 5

SH3 and multiple ankyrin repeat domains protein 2

SH3 and multiple ankyrin repeat domains protein 3

shisa-6

si:dkey-100n23.5

slit 2 protein

snRNA-activating protein complex subunit 4

sodium channel protein type 3 subunit alpha

sodium/hydrogen exchanger 1

sodium/hydrogen exchanger 5 precursor

solute carrier family 35 member D3

solute carrier family 35 member F3 isoform 2

sortilin-related receptor

SPARC-related modular calcium-binding protein 2

Spermatogenesis-associated protein 2

stromelysin-3

synphilin-1

T-box transcription factor TBX15

T-cell leukemia homeobox protein 1

T-cell receptor alpha chain V region 2B4 precursor

tetratricopeptide repeat protein 16

TGF-beta-activated kinase 1 and MAP3K7-binding protein 1

thymus-specific serine protease

thyroglobulin

thyroid adenoma-associated protein

thyrotropin-releasing hormone-degrading ectoenzyme

toll-interacting protein

toll-interacting protein A

tomoregulin-1

TOX high mobility group box family member 3

transcription factor 7 2

transmembrane and TPR repeat-containing protein 2

transmembrane protein 145 tRNA-specific adenosine deaminase 1 TSSC1

tumor necrosis factor ligand superfamily member 10 tumor necrosis factor ligand superfamily member 11 tumor protein 63 isoform 2 tumor protein p53-inducible nuclear protein 2 ubinuclein-1 ubiquitin-conjugating enzyme E2, J1 UPF0249 protein ydjC

vacuolar protein sorting-associated protein 13B VHSV-induced protein

voltage-dependent L-type calcium channel subunit alpha-1F voltage-dependent L-type calcium channel subunit beta-3 voltage-dependent P/Q-type calcium channel subunit alpha-1A

voltage-gated potassium channel subunit beta-3

WD repeat-containing and planar cell polarity effector protein fritz

wiskott-Aldrich syndrome protein family member ${\bf 3}$

xin actin-binding repeat-containing protein 2 zinc finger and BTB domain-containing protein 46

zinc finger E-box-binding homeobox 2 isoform 1

zinc finger HIT domain-containing protein 1

zinc finger MYM-type protein 1

zinc finger protein 313

zinc finger protein 704

zinc finger protein 865

zinc ring finger protein 3

Zygotic DNA replication licensing factor mcm6-B